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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/619,827	07/20/2000	Yang Cao	Cao-21	3535
75	590 05/12/2006		EXAMINER	
HARNESS, DICKEY & PIERCE			LY, ANH VU H	
P.O. BOX 8910)		ART UNIT PAPER NUMBI	
RESTON, VA 20195			2616	

DATE MAILED: 05/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		09/619,827	CAO ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Anh-Vu H I v	2616	
	- The MAILING DATE of this communication	appears on the cover shee	t with the correspondence	address
	- Donly			
WHIC - Exter after - If NO - Failu	DRTENED STATUTORY PERIOD FOR RESERVED IN A STATUTORY PERIOD IN A STATUT	R 1.136(a). In no event, however, m riod will apply and will expire SIX (6)	ay a reply be timely filed MONTHS from the mailing date of thi	
Status				
	Responsive to communication(s) filed on 1	<u>7 January 2006</u> .		
	:- :- FINIAL 2h)[X]	This action is non-tinal.		a
3)□	Cines this application is in condition for all	owance except for formal	matters, prosecution as to	tne merits is
الــار	closed in accordance with the practice und	er Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.	
Disposit	ion of Claims			
AND	Claim(s) <u>1,4-8,11,14-17,20-24 and 27-30</u> i	s/are pending in the appl	cation.	
4)[4a) Of the above claim(s) is/are with	ndrawn from consideration	٦.	
ει⊠	Claim(s) <u>20-24</u> is/are allowed.			
5)⊠ 6\⊠	Claim(s) <u>1,5-8,11 and 15-17</u> is/are rejected	d.		
7)⊠	Claim(s) 1 4-8 11.14-17 and 27-30 is/are	objected to.		
8)□		nd/or election requireme	nt.	
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	tion Papers	miner		
9)_] The specification is objected to by the Exa] The drawing(s) filed on is/are: a)[_	l accepted or b)□ object	ed to by the Examiner.	
10)□	The drawing(s) filed on is/are: a) Applicant may not request that any objection t	o the drawing(s) he held in a	abevance. See 37 CFR 1.85(a).
	Applicant may not request that any objection to Replacement drawing sheet(s) including the c	orrection is required if the di	awing(s) is objected to. See	37 CFR 1.121(d).
	Replacement drawing sheet(s) including the c The oath or declaration is objected to by the	he Evaminer Note the at	ached Office Action or for	m PTO-152.
11)[The oath or declaration is objected to by the	IIG EAGIIIIIGI. 11010 IIIG II		
Priority	under 35 U.S.C. § 119		0.0.0.440(=) (=) (=) (5)	
12)[Acknowledgment is made of a claim for for	reign priority under 35 U.	S.C. § 119(a)-(a) or (i).	
	a) ☐ All b) ☐ Some * c) ☐ None of:			
	1. Certified copies of the priority docu	ments have been receive	ed.	
	a Course describe of the priority docu	iments have been receive	ed in Application No	_· ional Stage
	3 Copies of the certified copies of the	e priority documents have	e been received in this ivat	ioriai otago
	application from the International E	Bureau (PCT Rule 17.2(a)).	
	* See the attached detailed Office action for	a list of the certified copi	es not received.	
Attachn		4) 🔲 In	terview Summary (PTO-413)	
1 2/ 🗆 M	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-	948)	aper No(s)/Mail Date otice of Informal Patent Application	on (PTO-152)
3)	office of Draffsperson's Patent Drawing (April 1970) Iformation Disclosure Statement(s) (PTO-1449 or PTO aper No(s)/Mail Date	0/SB/08)	otice of Informal Patent Application ther:	

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DETAILED ACTION

Response to Amendment

1. This communication is in response to applicant's amendment filed January 17, 2006. Claims 1, 4-8, 11, 14-17, 20-24, and 27-30 are pending.

Claim Objections

2. Claims 1, 4-8, 11, 14-17, and 27-30 are objected to because of the following informalities:

With respect to claim 1, in line 6, "_traffic" is misspelled.

With respect to claims 11 and 27, in lines 4 and 6, "circuit traffic" should be changed to -circuit switched traffic--.

Claims 4-8, 14-17, 28-30 are automatically objected to as they depend upon objected independent claims 1, 11, and 27.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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3. Claims 1, 5-8, 11, and 15-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Shimbashi et al (US Patent No. 6,798,779 B1). Hereinafter, referred to as Shimbashi.

With respect to claim 1, Shimbashi discloses a hybrid telecommunications switch apparatus (Fig. 4) comprising:

one or more circuit switch fabrics (Fig. 4, VT switching module 24); one or more packet switch fabrics (Fig. 4, ATM switching module 25); a controller (Fig. 4, centralized control module 32) configured to,

examine a SONET/SDH path overhead byte to determine which of said circuit switch fabrics or packet switch fabrics to route traffic to (Figs. 6 and 18, POH of signal must be extracted to locate ATM, IP, or DS1 traffic);

dynamically allocate circuit switch resources to ATM and IP traffic in order to route such traffic to the packet switch fabric based on said examination (col. 6, lines 32-34, if the signal includes ATM cells, it is transmitted to the shared inter-module interfaces 27-1 through 27-n, which perform ATM switching. Herein, shared inter-module interfaces 27-1 through 27-n are circuit switch resources); and

to route telecommunications traffic to one of the said circuit or packet switch fabrics based on said examination (col. 6, lines 22-34, STS switching module 23 switches the signal according to the trigger information if the signal requires to be switched, e.g., to VT or ATM switching module).

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With respect to claims 5-6, Shimbashi discloses that wherein the circuit switch fabric is synchronous transport signal (STS) crossconnect and wherein the packet switch fabric is configured to switch IP or ATM traffic (Fig. 4).

With respect to claim 7, Shimbashi discloses a plurality of circuit switch fabrics (Fig. 4, VT switching modules 24 and 24').

With respect to claim 8, Shimbashi discloses that the controller is configured to examine a POH byte associated with received traffic and to thereby determine whether the traffic is ATM, IP, or STM traffic (Figs. 6 and 18, POH of signal must be extracted to locate ATM, IP, or DS1 traffic).

With respect to claim 11, Shimbashi discloses a method of switching telecommunications traffic in a hybrid switch including a circuit switch fabric (Fig. 4, element 24), a packet switch fabric (Fig. 4, element 25), and a controller (Fig. 4, element 32), the method comprising the steps of:

- a) provisioning the circuit switch fabric for IP, ATM, and circuit switch traffic (Fig. 4, centralized control module 32),
- b) examining a SONET/SDH path overhead byte to determine whether received traffic is IP, ATM, or circuit switch traffic (Figs. 6 and 18, POH of signal must be extracted to locate ATM, IP, or DS1 traffic);

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c) dynamically allocating circuit switch resources to ATM and IP traffic in order to route such traffic to the packet switch fabric based on said examination (col. 6, lines 32-34, if the signal includes ATM cells, it is transmitted to the shared inter-module interfaces 27-1 through 27-n, which perform ATM switching. Herein, shared inter-module interfaces 27-1 through 27-n are circuit switch resources); and

d) switching the received traffic in the packet or circuit switch fabrics in response to the examination step b (col. 6, lines 22-34, STS switching module 23 switches the signal according to the trigger information if the signal requires to be switched, e.g., to VT or ATM switching module).

With respect to claims 15-16, Shimbashi discloses that the controller directing ATM traffic to a packet switch fabric and directing IP traffic to a packet switch fabric (col. 6, lines 22-34, STS switching module 23 switches the signal according to the trigger information if the signal requires to be switched, e.g., to VT or ATM switching module).

With respect to claim 17, Shimbashi discloses that the controller directing traffic that is neither ATM or IP traffic to the circuit switch fabric (col. 6, lines 22-34, STS switching module 23 switches the signal according to the trigger information if the signal requires to be switched, e.g., to VT or ATM switching module).

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Allowable Subject Matter

4. Claims 4 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Claims 20-24 are allowed. Claims 27 through 30 contain allowable subject matter but are objected to for minor informalities.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not teach or fairly suggest examine C2 overhead byte to determine which of said circuit switch fabrics or packet switch fabrics to route traffic to, as specified in independent claims 20 and 27.

Response to Arguments

6. Applicant's arguments filed January 17, 2006 have been fully considered but they are not persuasive.

Applicant argues in page 7 that Shimbashi does not disclose allocating circuit switch resources to ATM and IP traffic in order to route such traffic to a packet switch fabric. Examiner respectfully disagrees. Shimbashi discloses (col. 6, lines 32-34) that if the signal includes ATM cells, it is transmitted to the shared inter-module interfaces 27-1 through 27-n, which perform ATM switching. Herein, shared inter-module interfaces 27-1 through 27-n are circuit switch resources.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H. Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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